

Date: Fri, 3 Dec 93 17:34:02 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #1421
To: Info-Hams

Info-Hams Digest Fri, 3 Dec 93 Volume 93 : Issue 1421

Today's Topics:

 From the horse's mouth Re: Emergency Communications
 Identification procedures - unlicensed person
 Internet/Packet Gateways in Europe?
 Jeep Cherokee '87 Computer Noise!
 Looking for ARRL info ftp site
 modifiable radios
 ORBS\$337.MICRO.AMSAT
 ORBS\$337.MISC.AMSAT
 ORBS\$337.OSCAR.AMSAT
 ORBS\$337.WEATH.AMSAT
 PACKET RADIO & 800MHZ TRUNK SYS
 Poor Man's Spectrum Analyzer --- comments?
 using a radio off frequency in emergencies
 Windows Based Ham Programs

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 3 Dec 93 19:14:12 GMT
From: ogicse!uwm.edu!msuinfo!arctic2!cravitma@network.ucsd.edu
Subject: From the horse's mouth Re: Emergency Communications
To: info-hams@ucsd.edu

To add to the current discussions about what is and is not permitted
during emergency communications, here are the relevant sections from
Title 47, Code of Federal Regulations, Part 97:

Section 97.403 Safety of Life / Protection of Property

No provision of these rules prevents the use by an amateur station of any means of radiocommunications at its disposal to provide essential communications needs in connection with the immediate safety of life and immediate protection of property when normal communications systems are not available.

Section 97.405 Station in Distress

- (a) No provision in these rules prevents the use by an amateur station in distress of any means at its disposal to attract attention, make known its location and situation, and obtain assistance.
(b) No provision of these rules prevents the use by a station, in the exceptional circumstances described in paragraph (a) of this section, of any means of radiocommunications at its disposal to assist a station in distress.

Hope this helps everyone.

/Matthew (Still waiting for my ticket, 4 weeks and counting)

--

Matthew Cravit	All opinions expressed here are
Michigan State University	my own. I don't speak for Michigan
East Lansing, MI 48825	State, and they don't speak for me
E-Mail: cravitma@cps.msu.edu	(thank goodness).

Date: 3 Dec 93 18:09:40 GMT
From: ogicse!uwm.edu!msuinfo!arctic2!cravitma@network.ucsd.edu
Subject: Identification procedures - unlicensed person
To: info-hams@ucsd.edu

I was wondering -- since it is permissible for an unlicensed individual to use a radio in an emergency, and since it is possible that I may be faced with an "official FCC-approved grade A emergency" between now and when the FCC finally gets around to sending me my license, what is the established procedure (if any) for an unlicensed operator to identify him/herself if attempting to obtain emergency help?

/Matthew (Still waiting for my ticket, 4 weeks and counting)

--

Matthew Cravit	"So I sent him to ask of the
Michigan State University	owl, if he's there, how to
East Lansing, MI 48825	loosen a jar from the nose
E-Mail: cravitma@cps.msu.edu	of a bear..."

Date: Thu, 2 Dec 1993 12:12:51 GMT
From: pipex!uknet!gdt!aber!news@uunet.uu.net
Subject: Internet/Packet Gateways in Europe?
To: info-hams@ucsd.edu

Hello and thanks for reading this.

I am a student in Wales (UK) and my dad and I are both licensed radio hams. As there are no packet radio op's around here, we use the Internet gateway NOARY to communicate. This is an excellent service, however, if such a gateway exists in europe, I would very much like to change on to it, as it would shorten the time for mail to get to dad and would reduce the packet travel time, which is good for packet in general.

If such a gateway exists, I would be extremely grateful if you could mail me direct, at the following address :-

smd2@aber.ac.uk

Many thanks in advance of your replies.

73s de Simon G0HXU.

Date: Fri, 3 Dec 1993 16:41:13
From: news.service.uci.edu!biivax.dp.beckman.com!falstaff.css.beckman.com!capulet.css.beckman.com!srphillips@network.ucsd.edu
Subject: Jeep Cherokee '87 Computer Noise!
To: info-hams@ucsd.edu

My 1987 Jeep Cherokee's Ignition Control Computer under the dash spews the loudest most annoying EMI I have ever heard on 2 meters and 220. Has anyone a cap fix for this? I have all the service manuals to do the repair from scratch but I thought someone on the net may have already done this. The spark noise from the distributor etc. is not nearly as loud as the computer with just the key on and engine off!

Steve Phillips KD6SBP Internet: phillips@montague.css.beckman.com
Beckman Instruments Inc. Phone: 714-961-3170
2500 Harbor Bl. Mailstop X-10 Fax: 714-961-3351
Fullerton CA 92634 Disclaimer: Opinions are mine, not Beckman's
Old dog owners don't die; they just drop on recall!

Date: 1 Dec 1993 14:25:19 GMT
From: agate!usenet.ins.cwru.edu!nigel.msen.com!ilium!gdls.com!usenet@ames.arpa
Subject: Looking for ARRL info ftp site
To: info-hams@ucsd.edu

A while back someone posted the address of the ARRL information mirror ftp site.

Could someone either post it again, or send me the address. I am in urgent need of
some information.

Thanks

Bill

Date: 3 Dec 93 22:18:03 GMT
From: ogicse!emory!sol.ctr.columbia.edu!howland.reston.ans.net!vixen.cso.uiuc.edu!
ehsn2.cen.uiuc.edu!ah6542@network.ucsd.edu
Subject: modifiable radios
To: info-hams@ucsd.edu

I agree. One major question I have is:
(I mean I agree w/ the acceptable use of emergency comm out of
the ham band etc.)
back to the question:
Isn't it the cellular phone company's responsibility
to make sure their customers realize that their conversations
are NOT private- and that they CAN AND WILL be listened to? I
mean, really folks, congress just passed another law that saved
the big and powerful businesses (here the phone guys, other times
the coal/oil industries) a lot of money. If this law wasn't passed
poor little Mobile Link and Comm1 and all those other fellas
would have had to shell out Millions (maybe more) to make their
services more secure against the general public. (Not to
mention that all the old cellular phones would be crap,
and that the new ones not only would cost more, but would

be a bigger). So, here we see congress helping little old us the public by saving all the big phone companies the hassle of having to tell their (not so smart users -not inclusive) that the great new way of communication- cellular phones- is not as secure as you may think.

I think that the mobile-phone companies should explicitly say that the phone calls are easily monitored by an FM reciever. I have heard many many things before on cellular freqs. (the on thing that really supports my above sentence is that I once heard Name, Mastercard Number, and Expiration date all give out on the freq. -come on folks!- how easy can you make it for someone to steal from you?!?)

(I never stole from them because I just enjoy radio communications as a hobby and not as a way of life -although sometimes it may seem like that ;)

(hope we don't feed the flame war too much, but talking about it helps to ease the pain)

73's et TNX,
Allen Hall n9rzc@uiuc.edu

(I will try to keep up w/ any of the rest of this string, but if anyone wants to post a question directly to me, please e-mail me because I don't always get to nn between exams ;)

73's

Date: 3 Dec 93 15:02:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS\$337.MICRO.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-337.D
Orbital Elements 337.MICROS

HR AMSAT ORBITAL ELEMENTS FOR THE MICROSATS
FROM WA5QGD FORT WORTH,TX December 3, 1993
BID: \$ORBS-337.D
TO ALL RADIO AMATEURS BT

Satellite: UO-14
Catalog number: 20437
Epoch time: 93334.69642848

Element set: 915
Inclination: 98.6046 deg
RA of node: 57.0601 deg
Eccentricity: 0.0011889
Arg of perigee: 55.3459 deg
Mean anomaly: 304.8840 deg
Mean motion: 14.29806558 rev/day
Decay rate: 6.6e-07 rev/day^2
Epoch rev: 20122
Checksum: 320

Satellite: A0-16

Catalog number: 20439
Epoch time: 93334.68970974
Element set: 715
Inclination: 98.6123 deg
RA of node: 58.0868 deg
Eccentricity: 0.0012249
Arg of perigee: 55.8918 deg
Mean anomaly: 304.3434 deg
Mean motion: 14.29863405 rev/day
Decay rate: 5.6e-07 rev/day^2
Epoch rev: 20123
Checksum: 321

Satellite: D0-17

Catalog number: 20440
Epoch time: 93334.66327841
Element set: 715
Inclination: 98.6134 deg
RA of node: 58.3203 deg
Eccentricity: 0.0012311
Arg of perigee: 55.5998 deg
Mean anomaly: 304.6342 deg
Mean motion: 14.30000807 rev/day
Decay rate: 6.2e-07 rev/day^2
Epoch rev: 20124
Checksum: 264

Satellite: W0-18

Catalog number: 20441
Epoch time: 93334.21540152
Element set: 716
Inclination: 98.6128 deg
RA of node: 57.8916 deg
Eccentricity: 0.0012863
Arg of perigee: 57.2334 deg
Mean anomaly: 303.0100 deg

Mean motion: 14.29978366 rev/day
Decay rate: 6.0e-07 rev/day^2
Epoch rev: 20118
Checksum: 281

Satellite: L0-19

Catalog number: 20442
Epoch time: 93334.69648230
Element set: 715
Inclination: 98.6137 deg
RA of node: 58.5780 deg
Eccentricity: 0.0013153
Arg of perigee: 55.4957 deg
Mean anomaly: 304.7459 deg
Mean motion: 14.30070867 rev/day
Decay rate: 5.5e-07 rev/day^2
Epoch rev: 20126
Checksum: 310

Satellite: U0-22

Catalog number: 21575
Epoch time: 93334.67727514
Element set: 415
Inclination: 98.4566 deg
RA of node: 47.9847 deg
Eccentricity: 0.0007826
Arg of perigee: 156.5425 deg
Mean anomaly: 203.6132 deg
Mean motion: 14.36868808 rev/day
Decay rate: 8.6e-07 rev/day^2
Epoch rev: 12457
Checksum: 336

Satellite: K0-23

Catalog number: 22077
Epoch time: 93335.44100612
Element set: 312
Inclination: 66.0879 deg
RA of node: 334.0117 deg
Eccentricity: 0.0005948
Arg of perigee: 336.7167 deg
Mean anomaly: 23.3555 deg
Mean motion: 12.86282019 rev/day
Decay rate: .00000000 rev/day^2
Epoch rev: 6135
Checksum: 264

Satellite: A0-27

Catalog number: 22825
Epoch time: 93335.66121621
Element set: 214
Inclination: 98.6748 deg
RA of node: 48.2617 deg
Eccentricity: 0.0009506
Arg of perigee: 67.0884 deg
Mean anomaly: 293.1315 deg
Mean motion: 14.27592650 rev/day
Decay rate: 5.4e-07 rev/day^2
Epoch rev: 950
Checksum: 305

Satellite: IO-26
Catalog number: 22826
Epoch time: 93335.65645330
Element set: 215
Inclination: 98.6753 deg
RA of node: 48.2666 deg
Eccentricity: 0.0010130
Arg of perigee: 68.0262 deg
Mean anomaly: 292.2022 deg
Mean motion: 14.27695161 rev/day
Decay rate: 6.7e-07 rev/day^2
Epoch rev: 950
Checksum: 289

Satellite: KO-25
Catalog number: 22830
Epoch time: 93334.73062882
Element set: 215
Inclination: 98.5750 deg
RA of node: 46.7010 deg
Eccentricity: 0.0012513
Arg of perigee: 41.6119 deg
Mean anomaly: 318.6010 deg
Mean motion: 14.28019103 rev/day
Decay rate: 6.3e-07 rev/day^2
Epoch rev: 937
Checksum: 261

/EX

Date: 3 Dec 93 15:07:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS\$337.MISC.AMSAT

To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-337.M
Orbital Elements 337.MISC

HR AMSAT ORBITAL ELEMENTS FOR MANNED AND MISCELLANEOUS SATELLITES
FROM WA5QGD FORT WORTH, TX December 3, 1993
BID: \$ORBS-337.M
TO ALL RADIO AMATEURS BT

Satellite: MIR
Catalog number: 16609
Epoch time: 93335.61195375
Element set: 8
Inclination: 51.6183 deg
RA of node: 98.3478 deg
Eccentricity: 0.0005473
Arg of perigee: 48.6088 deg
Mean anomaly: 311.5306 deg
Mean motion: 15.58761518 rev/day
Decay rate: 6.745e-05 rev/day^2
Epoch rev: 44522
Checksum: 319

Satellite: HUBBLE
Catalog number: 20580
Epoch time: 93334.49424048
Element set: 366
Inclination: 28.4678 deg
RA of node: 72.2793 deg
Eccentricity: 0.0004404
Arg of perigee: 354.4743 deg
Mean anomaly: 5.5823 deg
Mean motion: 14.92940966 rev/day
Decay rate: 7.37e-06 rev/day^2
Epoch rev: 19638
Checksum: 320

Satellite: GRO
Catalog number: 21225
Epoch time: 93332.89291156
Element set: 1
Inclination: 28.4615 deg
RA of node: 182.5452 deg
Eccentricity: 0.0032650
Arg of perigee: 186.4473 deg
Mean anomaly: 173.5288 deg
Mean motion: 15.46654112 rev/day

Decay rate: 4.723e-05 rev/day^2
Epoch rev: 2600
Checksum: 277

Satellite: UARS
Catalog number: 21701
Epoch time: 93332.63061551
Element set: 416
Inclination: 56.9840 deg
RA of node: 242.6493 deg
Eccentricity: 0.0005839
Arg of perigee: 92.2745 deg
Mean anomaly: 267.9904 deg
Mean motion: 14.96170835 rev/day
Decay rate: 4.494e-05 rev/day^2
Epoch rev: 12090
Checksum: 307

Satellite: POSAT
Catalog number: 22829
Epoch time: 93289.11726978
Element set: 204
Inclination: 98.6763 deg
RA of node: 2.0610 deg
Eccentricity: 0.0010043
Arg of perigee: 184.4594 deg
Mean anomaly: 175.6498 deg
Mean motion: 14.27975951 rev/day
Decay rate: 7.2e-07 rev/day^2
Epoch rev: 286
Checksum: 317

/EX

Date: 3 Dec 93 15:00:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS\$337.OSCAR.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-337.0
Orbital Elements 337.OSCAR

HR AMSAT ORBITAL ELEMENTS FOR OSCAR SATELLITES
FROM WA5QGD FORT WORTH,TX December 3, 1993
BID: \$ORBS-337.0
TO ALL RADIO AMATEURS BT

Satellite: A0-10
Catalog number: 14129
Epoch time: 93328.37358304
Element set: 212
Inclination: 27.1967 deg
RA of node: 354.6814 deg
Eccentricity: 0.6020029
Arg of perigee: 132.8205 deg
Mean anomaly: 296.5509 deg
Mean motion: 2.05877703 rev/day
Decay rate: 6.0e-08 rev/day^2
Epoch rev: 7855
Checksum: 302

Satellite: U0-11
Catalog number: 14781
Epoch time: 93334.56060295
Element set: 615
Inclination: 97.7956 deg
RA of node: 353.4973 deg
Eccentricity: 0.0011482
Arg of perigee: 179.8391 deg
Mean anomaly: 180.2820 deg
Mean motion: 14.69091713 rev/day
Decay rate: 2.00e-06 rev/day^2
Epoch rev: 52114
Checksum: 308

Satellite: RS-10/11
Catalog number: 18129
Epoch time: 93332.42270253
Element set: 814
Inclination: 82.9259 deg
RA of node: 117.2417 deg
Eccentricity: 0.0010740
Arg of perigee: 217.0444 deg
Mean anomaly: 143.0089 deg
Mean motion: 13.72327034 rev/day
Decay rate: 5.9e-07 rev/day^2
Epoch rev: 32237
Checksum: 273

Satellite: A0-13
Catalog number: 19216
Epoch time: 93334.89295688
Element set: 819
Inclination: 57.9062 deg

RA of node: 281.3321 deg
Eccentricity: 0.7211239
Arg of perigee: 329.5060 deg
Mean anomaly: 3.4438 deg
Mean motion: 2.09727727 rev/day
Decay rate: -2.93e-06 rev/day^2
Epoch rev: 4185
Checksum: 325

Satellite: F0-20

Catalog number: 20480
Epoch time: 93330.50118171
Element set: 611
Inclination: 99.0189 deg
RA of node: 155.8314 deg
Eccentricity: 0.0541157
Arg of perigee: 78.7761 deg
Mean anomaly: 287.3633 deg
Mean motion: 12.83222138 rev/day
Decay rate: -1.9e-07 rev/day^2
Epoch rev: 17813
Checksum: 294

Satellite: A0-21

Catalog number: 21087
Epoch time: 93334.52703634
Element set: 372
Inclination: 82.9438 deg
RA of node: 289.7212 deg
Eccentricity: 0.0034068
Arg of perigee: 279.0086 deg
Mean anomaly: 80.7210 deg
Mean motion: 13.74529132 rev/day
Decay rate: 8.4e-07 rev/day^2
Epoch rev: 14229
Checksum: 299

Satellite: RS-12/13

Catalog number: 21089
Epoch time: 93335.60629654
Element set: 616
Inclination: 82.9186 deg
RA of node: 157.9722 deg
Eccentricity: 0.0028484
Arg of perigee: 300.8203 deg
Mean anomaly: 59.0141 deg
Mean motion: 13.74031015 rev/day
Decay rate: 6.2e-07 rev/day^2

Epoch rev: 14150
Checksum: 285

Satellite: ARSENE
Catalog number: 22654
Epoch time: 93321.93138545
Element set: 210
Inclination: 1.4185 deg
RA of node: 113.8817 deg
Eccentricity: 0.2935300
Arg of perigee: 161.0091 deg
Mean anomaly: 211.2000 deg
Mean motion: 1.42195961 rev/day
Decay rate: -5.1e-07 rev/day^2
Epoch rev: 275
Checksum: 241

/EX

Date: 3 Dec 93 15:05:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS\$337.WEATH.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-337.W
Orbital Elements 337.WEATHER

HR AMSAT ORBITAL ELEMENTS FOR WEATHER SATELLITES
FROM WA5QGD FORT WORTH, TX December 3, 1993
BID: \$ORBS-337.W
TO ALL RADIO AMATEURS BT

Satellite: NOAA-9
Catalog number: 15427
Epoch time: 93334.84368432
Element set: 615
Inclination: 99.0804 deg
RA of node: 17.7293 deg
Eccentricity: 0.0015863
Arg of perigee: 60.2936 deg
Mean anomaly: 299.9797 deg
Mean motion: 14.13566417 rev/day
Decay rate: 1.30e-06 rev/day^2
Epoch rev: 46232
Checksum: 329

Satellite: NOAA-10
Catalog number: 16969
Epoch time: 93333.79766137
Element set: 513
Inclination: 98.5132 deg
RA of node: 343.8701 deg
Eccentricity: 0.0012893
Arg of perigee: 187.6835 deg
Mean anomaly: 172.3786 deg
Mean motion: 14.24846717 rev/day
Decay rate: 8.2e-07 rev/day^2
Epoch rev: 37421
Checksum: 339

Satellite: MET-2/17
Catalog number: 18820
Epoch time: 93334.74597958
Element set: 214
Inclination: 82.5442 deg
RA of node: 66.4440 deg
Eccentricity: 0.0017282
Arg of perigee: 23.3483 deg
Mean anomaly: 336.8433 deg
Mean motion: 13.84698976 rev/day
Decay rate: 4.6e-07 rev/day^2
Epoch rev: 29489
Checksum: 348

Satellite: MET-3/2
Catalog number: 19336
Epoch time: 93327.88606867
Element set: 213
Inclination: 82.5382 deg
RA of node: 108.9623 deg
Eccentricity: 0.0018510
Arg of perigee: 57.6406 deg
Mean anomaly: 302.6575 deg
Mean motion: 13.16961911 rev/day
Decay rate: 4.3e-07 rev/day^2
Epoch rev: 25623
Checksum: 308

Satellite: NOAA-11
Catalog number: 19531
Epoch time: 93335.92967935
Element set: 413
Inclination: 99.1530 deg
RA of node: 315.2247 deg

Eccentricity: 0.0011726
Arg of perigee: 331.7228 deg
Mean anomaly: 28.3309 deg
Mean motion: 14.12936228 rev/day
Decay rate: 8.1e-07 rev/day^2
Epoch rev: 26735
Checksum: 302

Satellite: MET-2/18
Catalog number: 19851
Epoch time: 93332.43866979
Element set: 214
Inclination: 82.5176 deg
RA of node: 303.9647 deg
Eccentricity: 0.0016035
Arg of perigee: 71.1943 deg
Mean anomaly: 289.1041 deg
Mean motion: 13.84349840 rev/day
Decay rate: 2.8e-07 rev/day^2
Epoch rev: 23991
Checksum: 329

Satellite: MET-3/3
Catalog number: 20305
Epoch time: 93334.69005237
Element set: 917
Inclination: 82.5555 deg
RA of node: 47.4111 deg
Eccentricity: 0.0016898
Arg of perigee: 62.3849 deg
Mean anomaly: 297.9388 deg
Mean motion: 13.16025158 rev/day
Decay rate: 4.3e-07 rev/day^2
Epoch rev: 19700
Checksum: 312

Satellite: MET-2/19
Catalog number: 20670
Epoch time: 93335.60399146
Element set: 715
Inclination: 82.5472 deg
RA of node: 5.4152 deg
Eccentricity: 0.0015768
Arg of perigee: 346.9929 deg
Mean anomaly: 13.0856 deg
Mean motion: 13.84183560 rev/day
Decay rate: 1.5e-07 rev/day^2
Epoch rev: 17328

Checksum: 315

Satellite: FY-1/2

Catalog number: 20788

Epoch time: 93339.47904126

Element set: 821

Inclination: 98.8533 deg

RA of node: 0.7053 deg

Eccentricity: 0.0014839

Arg of perigee: 188.6689 deg

Mean anomaly: 174.3362 deg

Mean motion: 14.01384510 rev/day

Decay rate: 6.89e-06 rev/day²

Epoch rev: 16657

Checksum: 332

Satellite: MET-2/20

Catalog number: 20826

Epoch time: 93335.37726470

Element set: 714

Inclination: 82.5244 deg

RA of node: 303.3602 deg

Eccentricity: 0.0011729

Arg of perigee: 242.0794 deg

Mean anomaly: 117.9159 deg

Mean motion: 13.83565277 rev/day

Decay rate: 5.6e-07 rev/day²

Epoch rev: 16040

Checksum: 296

Satellite: MET-3/4

Catalog number: 21232

Epoch time: 93334.42659185

Element set: 619

Inclination: 82.5452 deg

RA of node: 310.1141 deg

Eccentricity: 0.0012716

Arg of perigee: 324.1743 deg

Mean anomaly: 35.9155 deg

Mean motion: 13.16458468 rev/day

Decay rate: 4.3e-07 rev/day²

Epoch rev: 12520

Checksum: 275

Satellite: NOAA-12

Catalog number: 21263

Epoch time: 93335.94780045

Element set: 820

Inclination: 98.6410 deg
RA of node: 2.8806 deg
Eccentricity: 0.0013991
Arg of perigee: 87.7504 deg
Mean anomaly: 272.5281 deg
Mean motion: 14.22339524 rev/day
Decay rate: 1.89e-06 rev/day^2
Epoch rev: 13249
Checksum: 302

Satellite: MET-3/5
Catalog number: 21655
Epoch time: 93335.73681315
Element set: 616
Inclination: 82.5541 deg
RA of node: 256.1756 deg
Eccentricity: 0.0013519
Arg of perigee: 337.2586 deg
Mean anomaly: 22.7976 deg
Mean motion: 13.16824449 rev/day
Decay rate: 4.3e-07 rev/day^2
Epoch rev: 11047
Checksum: 313

Satellite: MET-2/21
Catalog number: 22782
Epoch time: 93330.57841316
Element set: 213
Inclination: 82.5498 deg
RA of node: 6.9986 deg
Eccentricity: 0.0023854
Arg of perigee: 74.2891 deg
Mean anomaly: 286.0902 deg
Mean motion: 13.82992608 rev/day
Decay rate: 5.2e-07 rev/day^2
Epoch rev: 1208
Checksum: 316

/EX

Date: 3 Dec 1993 22:33:06 GMT
From: nothing.ucsd.edu!brian@network.ucsd.edu
Subject: PACKET RADIO & 800MHZ TRUNK SYS
To: info-hams@ucsd.edu

In article <CHD5o3.3BM@microsoft.com> edmitch@microsoft.com (Ed Mitchell) writes:

>Trunked repeaters move to their channel assignment just as the transmitter is
>keyed so you need to wait a momemt before setting the packet. That's easy to
>do. AX.25 packet TNCs have a TXDELAY setting that causes a delay between
>transmit key up and packet tranmission. At home my TNC/Radio combination
>is set to 10 ms delay. When I ran packet through a voice repeater-type of
>system, I had TXD set to 40ms. For a trunked repeater, you will probably
>need something a little longer.

AXD and AXH are really more appropriate than TXD for coping with a
repeater. AXD is the keyup delay of the repeater; AXH is the 'hang'
(delayed-drop-out) time. The TNC will insert a delay of AXD length
at the beginning of a transmission if there has been more than AXH
time elapsed since the last transmission or detected carrier.

In other words, the TNC takes a good guess at whether the repeater is
still keyed (or on a trunked system, if the channel assignment has
expired) and doesn't delay if it's not needed. That's better than using
TXD, which would delay EVERY transmission, even if not needed.

- Brian

Date: Wed, 1 Dec 1993 17:15:26 GMT
From: swrinde!cs.utexas.edu!math.ohio-state.edu!darwin.sura.net!
fconvx.ncifcrf.gov!fcs260c!mack@network.ucsd.edu
Subject: Poor Man's Spectrum Analyzer --- comments?
To: info-hams@ucsd.edu

In article <1993Nov30.142036.5990@nmt.edu> bateman@nmt.edu (Monte Bateman) writes:
>

>I am considering buying the kit(s) for the Poor Man's Spectrum Analyzer
>from Science Workshop. Has anybody had any experiences with this unit (in either
building or operating)?
>

I built one about 7 years ago and it did wahat it was suppose to do. The
guy who made hte kits was quite helpful on the phone. You don't see much
below a certain limit (I forget what maybe <10MHz) because of some inbuilt
limitation. Also you need to get ground and other loops our of the connection
to the CRO, or else your output is noisy. I haven't used mine for about 5 years
now.

I really never did much with it becasue it never got into a box and at that stage
there was no easy way of telling freq (you had to get out your ovoltmeter and
do some things). There are improvemtns to the set up - someone has made
a better swawtooth generator and I believe there's a freq readout now.

Joe NA3T
mack@ncifcrf.gov

Date: 3 Dec 93 17:35:47 GMT
From: ogicse!uwm.edu!msuinfo!arctic2!cravitma@network.ucsd.edu
Subject: using a radio off frequency in emergencies
To: info-hams@ucsd.edu

In article <1993Dec2.190057.2908@malins.mala.bc.ca> babiye@mal.bc.ca (DALE BABIY) writes:

>In article <holland-291193181932@right.dom.uab.edu>, holland@gasmac.dom.uab.edu (Steve Holland) writes:

>

>> I was wondering what is the correct thing to do if one has a radio that
>> can transmit outside of amateur bands and a real, life threatening
>> emergency arises.

>

>In my case, I believe that a human life comes above all else. If it ment
>forking over my HT to save one, so be it. I believe it would be the _right_
>thing. Now as to weather its the _legal_ thing, I'm not up enough on the laws
>to comment.

I don't recall if I commented on this before, but the FCC regulations (Part 97) say something to the effect that if there is eminent danger to life or property, an operator is authorized to use _any means at their disposal_ to obtain assistance (emphasis mine). I am planning to look this up sometime, and will post a specific quote when I have one.

/Matthew (Still waiting for my ticket, 4 weeks and counting)

--

Matthew Cravit	"So I sent him to ask of the
Michigan State University	owl, if he's there, how to
East Lansing, MI 48825	loosen a jar from the nose
E-Mail: cravitma@cps.msu.edu	of a bear..."

Date: Thu, 2 Dec 1993 15:03:57 GMT
From: spool.mu.edu!howland.reston.ans.net!paladin.american.edu!
europa.eng.gtefsd.com!avdms8.msfc.nasa.gov!sol.ctr.columbia.edu!news.columbia.edu!
psinnntp!psinnntp!relay1!ecdcsvr!klf@decwrl.dec.com
Subject: Windows Based Ham Programs
To: info-hams@ucsd.edu

Hi All, Besides the commercial packages available, are there any Windows based ahm programs available. What I am specifically looking for are a fair to gud Windows Packet pgm and a Windows based Rig keyer pgm. I hv seen a commercial package that is a complete logging, packet, rig control

package (Logview, Packview, Rigview), but feel the performance of the Log database is terrible (at least for a 386sx!). If you hv seen anything gud or hv written one urself, plz let me know. Tnks. De KA3PLS, Ken....

KLF@ecdcsvr.tredydev.unisys.com

My opinions are my own and probably are not shared by my employer

End of Info-Hams Digest V93 #1421
